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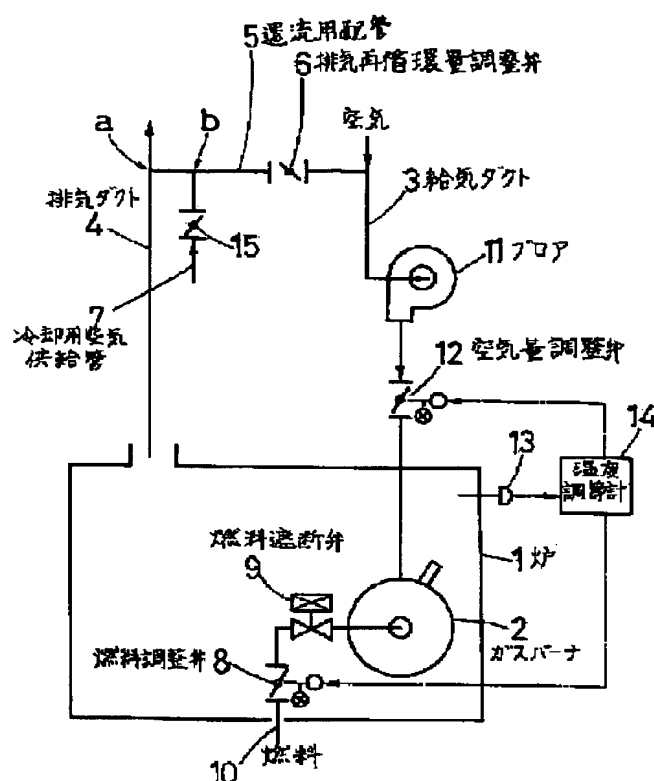
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APPLICANT : OSAKA GAS CO LTD;

INVENTOR : OMORI ATSUSHI;

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TITLE : DISCHARGED GAS RECIRCULATING
SYSTEM FOR FURNACE



ABSTRACT : PROBLEM TO BE SOLVED: To reduce a facility cost for a discharged gas re-circulation system.

SOLUTION: A discharged gas recirculating system for a furnace 1 is constructed such that a discharged gas circulating pipe 5 is arranged to extend from a discharged gas duct 4 to an air supplying duct 3, a discharged gas recirculating adjustment valve 6 is installed at the discharged gas circulating pipe 5 to circulate a part of the discharged gas, thereby a low NOx combustion is carried out. A cooling air supplying pipe 7 is introduced in the upstream side of the discharged gas recirculation adjustment valve 6 in the circulating pipe 5. With such an arrangement as above, it is possible to eliminate a thermal insulating work for the recirculating pipe 5 in the downstream side than a merging point of the cooling air supplying pipe 7 and also a thermal insulating specification for the discharged gas recirculating adjustment valve 6.

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